

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/808,341	. 03/25/2004	Hyun-kyu Yun	101-1019	5441
	7590 09/10/200 & KIM LLP	7	EXAMINER	
STANZIONE & KIM, LLP 919 18TH STREET, N.W. SUITE 440 WASHINGTON, DC 20006			CHOI, WOO H	
			ART UNIT	PAPER NUMBER
			2189	
			MAIL DATE	DELIVERY MODE
			09/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,	Application No.	Applicant(s)					
. Office Action Communication	10/808,341	YUN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Woo H. Choi	2189					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 17 May 2007.							
2a) This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.							
4a) Of the above claim(s) <u>7-10,19-27</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-6,11-18,28-33</u> are subject to restrict	8) Claim(s) <u>1-6,11-18,28-33</u> are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage					
application from the International Bureau	` ''						
* See the attached detailed Office action for a list of the certified copies not received.							
·							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date	6) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Ac	tion Summary Pa	ort of Paper No./Mail Date 20070903					

Application/Control Number: 10/808,341

Art Unit: 2189

Page 2

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1 6, 12, and 13, drawn to an apparatus in a DSP architecture that comprises a communication port and a three by three matrix of memory elements with a computing element in the middle, classified in class 711, subclass 173.
 - II. Claims 11 and 17, drawn to a method to process an image in a matrix of memory elements and a computing element by storing data through one port in a row direction and in a column direction through another port, classified in class 711, subclass 149.
 - III. Claims 14 16 and 18, drawn to a DSP apparatus for motion picture data with two communications ports and an arrangement unit that comprise memory elements and a calculation element in a three by three matrix structure where the middle row is connected to the first port and the middle column is connected to the second port, classified in class 712, subclass 11.
 - IV. Claims 28 33, drawn to a digital processing apparatus with a communication port to provide image frames, memory units to receive and store image frames, and a calculation element with no direct connection to the port and having access to an image frame in any memory independently of access to any other memory units, classified in class 712, subclass 14.

Application/Control Number: 10/808,341

Art Unit: 2189

2. Inventions II and the other inventions are related as process and apparatus for its practice.

Page 3

The inventions are distinct if it can be shown that either: (1) the process as claimed can be

practiced by another and materially different apparatus or by hand, or (2) the apparatus as

claimed can be used to practice another and materially different process. (MPEP § 806.05(e)).

In this case none of the structures of the other inventions require the use of two different ports to

store data in a column or row direction as claimed in invention II. The structures can be used to

store data through one port in one direction only or though one or more ports in no particular

direction.

3. Inventions I and IV, and III are related as subcombinations disclosed as usable together in

a single combination. The subcombinations are distinct if they do not overlap in scope and are

not obvious variants, and if it is shown that at least one subcombination is separately usable. In

the instant case, subcombinations I and IV have separate utility such as for use to process images

other than motion pictures. Physical configuration of III, of having the middle row connected to

one port and middle column connected to another port is also quite distinct from the other two

inventions. See MPEP § 806.05(d).

Inventions I and IV are subcombinations disclosed as usable together in a single

combination. For example, subcombination IV can be used in a non-matrix configuration, such

as in a vector processing system.

Art Unit: 2189

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

4. Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

Art Unit: 2189

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Woo H. Choi whose telephone number is (571) 272-4179. The examiner can normally be reached on M-F, 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reginald Bragdon can be reached on (571) 272-4204. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/808,341

Art Unit: 2189

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Woo H. Choi

Primary Examiner September 4, 2007